

Public Notice

APPLICANT: TDOT

PERMIT APPLICATION: NRS #06.049

LOCATION: SR-1 (U.S. 70) East of Spring Valley Road to McMinnville
Willow Branch, Woodland Creek, and 2 unnamed tributaries
Site Lat.35.6970° Long. -85.8178°
Warren County

WATERSHED DESCRIPTION: The project is located in the Collins River Watershed (HUC 05130107), which drains approximately 811 square miles and empties into the Caney Fork River. Land use surrounding the project area is residential and commercial. Four streams and two wetlands will be impacted. Willow Branch and Woodland Creek have been assessed as impaired for habitat loss due to alteration of the streambanks and loss of biological integrity due to siltation. These streams drain to the Barren Fork of Collins River, assessed as fully supporting its uses.

Willow Branch, S-1, has limestone bedrock substrate, no canopy upstream with shrub and forested riparian zone downstream of SR-1 and drains to S-2.

Wetland 1 is a contiguous, herbaceous wetland located south of SR-1 and west of Golf Club Lane buffers S-3.

Woodland Creek, S-2, has limestone bedrock substrate, no canopy immediately upstream and wooded riparian zone downstream of SR-1.

Wetland 2 is a small wet area buffering Woodland Creek on the east, south of SR-1, and west of S. Circle Road. While the soils were determined not to be hydric, a conservative approach was taken in calling this area a wetland.

Unnamed tributary to Willow Branch, S-3 located south of SR-1 flows parallel to the highway beginning in Wetland 1 from a spring, flows parallel to SR-1 flows under Golf Club Lane to Willow Branch. This stream has soil substrate with herbaceous riparian zone upstream of Golf Club Lane. Downstream of Golf Club Lane, there is no canopy due to mowing.

Unnamed tributary to Woodland Creek, S-4, begins from two springs near Church Street, is impounded east of Paris St., and combines with Woodland Creek just north of SR-1. This stream has soil and gravel substrate, mixed herbaceous and wooded canopy and is culverted in two locations.

PROJECT DESCRIPTION: This application is for aquatic resource alterations along a 1.056-mile segment of SR-1 (US 70). SR-1 will be widened and slightly realigned. The intersections of Golf Club Lane, Robinson Road, S. Circle Road (east and west), Parris St. and Church St. will be widened for a short distance near SR-1. Bridge Builders Road

will be realigned to intersect with SR-1 east of Robinson Road. Associated with the road project will be the removal and replacement of gas, water, telephone, and electric lines running parallel with SR-1.

Proposed for Willow Branch, S-1, is the removal of the existing 50' 2 barrel box bridge, gas and water lines to be replaced with a 163 ft 3 span box bridge with the 2" gas line to be moved downstream and the 6" water line to be moved upstream. Thirty-four feet of Class B riprap will be placed on the inlet and 40 ft will be placed at the outlet of the box bridge. An outfall is proposed for an existing wet weather conveyance to Willow Branch at latitude 35.6970° longitude -85.8178°. The 30" concrete pipe will be replaced with a 42" concrete pipe with riprap at the outlet.

The unnamed tributary to Willow Branch, S-3, will be relocated into a channel at the toe of the fill slope to flow through a single barrel 10' x 5' box culvert on Golf Club Lane then to Willow Branch. This relocated stream will be bisected by the placement of a new gas line east of Golf Club Lane and the removal and replacement of the water line on the west of the road.

A 0.065-acre portion of Wetland 1 will be filled. Mitigation is not required for this amount of lost resource.

Proposed for Woodland Creek, S-2, is the removal of the existing 75 ft single barrel box culvert and the existing gas line. The replacement structure will be a 185 ft 2-barrel box bridge with 27 ft of riprap on the inlet and 49 ft of rip rap at the outlet. Total encapsulation has been calculated to be 201 ft, mitigation of \$40,200.00 to the In Lieu Fee Program has been proposed as mitigation for this lost resource.

Wetland 2 is to be temporarily impacted by the gas line installation. The proposal is to restore the area by stock piling topsoil during construction, replacing the soil and planting wetland vegetation.

Unnamed tributary to Woodland Creek, S-4, is to have an extension of the existing 36" metal pipe. This stream will combine with S-2 under the proposed box bridge. A proposed 6" water line will bisect this stream.

In accordance with the Tennessee Antidegradation Statement (Rule 1200-4-3-.06), the Division has determined that the proposed activity will not result in degradation to the streams described above.

PERMIT COORDINATOR: Judy Manners

USGS Topographic Quad McMinnville (92 NE)

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|--------|------|----------------|-----------|
| R.O.W. | 2005 | STP-NHE-1(112) | 29 |
| CONST. | 2006 | STP-NHE-1(112) | 4 |

FOR EXIST. & PROP.
R.O.W. INFORMATION
SEE SHEET 29C

REV. 9/29/05: ADDED PHASE
FLAG FOR UTILITY RELOCATION
REV. 12/13/05: MOVED TRIPLE BOX
TO 409+31.01. REVISED ROW & CONST
ESMT ON TRACT NO. 78. REVISED ROW
ON TRACT NO. 82. ADDED RWC-1 LABEL
TO UNNAMED TRIBUTARY AND STR-1
LABEL TO WILLOW BRANCH. ADDED
WETLAND AREA WTL-1 IN AREA RIGHT
OF 405+80.

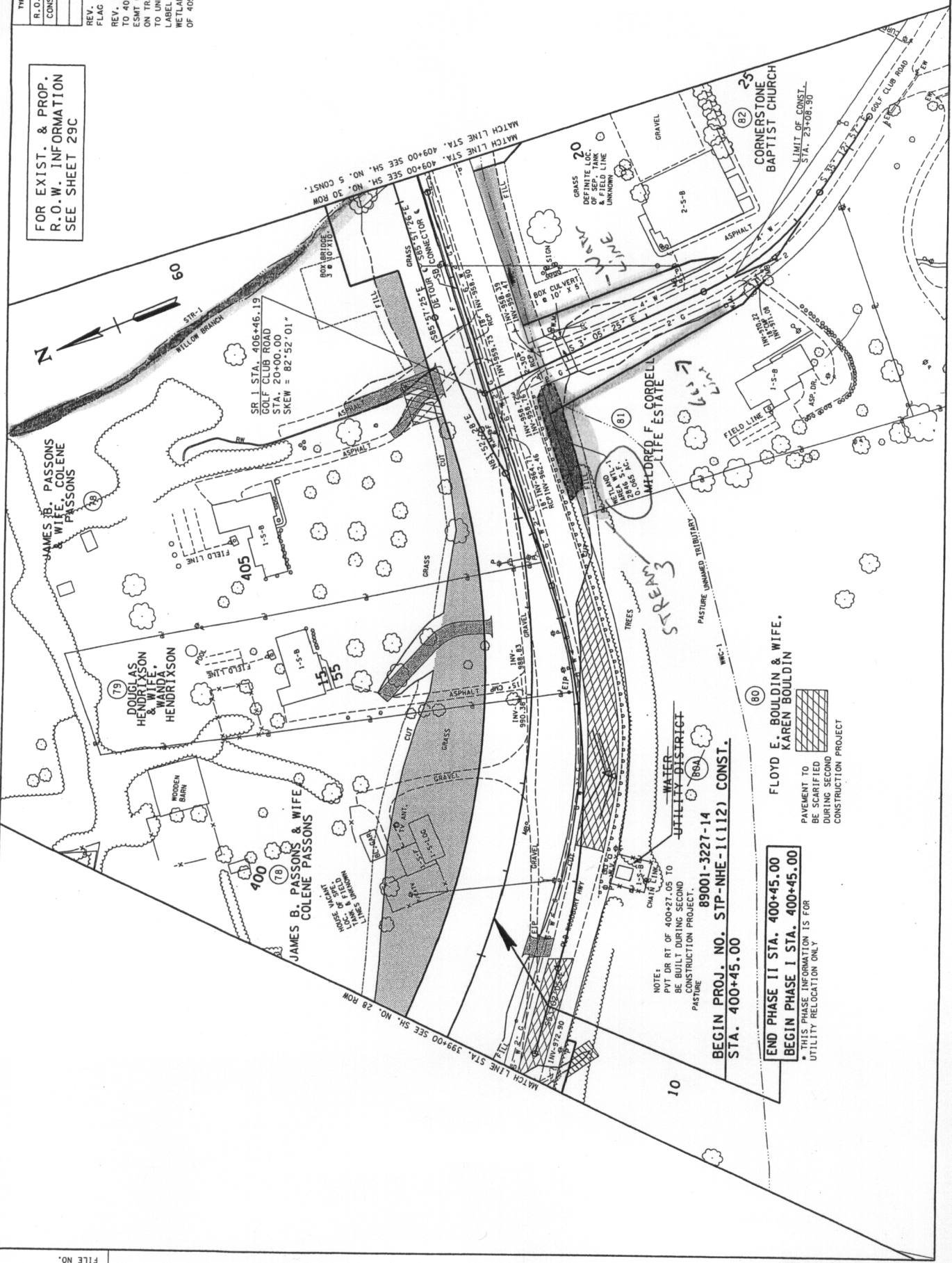


COORDINATE VALUES ARE NAD(83) UTM
AND ARE DATUM ADJUSTED BY THE
FACTOR 1.000004 & TIED TO THE TORN

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT
LAYOUT

STA. 399+00 TO STA. 409+00
SCALE: 1" = 50'





PROPOSED LAYOUT

STA. 398+21 TO STA. 409+00

SCALE: 1" = 50'

SCALE, 100-500

STA. 399+00 TO STA. 404+50
RECOMMENDED CUT SLOPES OF 3H:1V
OR FLATTER FOR THIS INTERVAL

69001-3227-14
BEGIN PROJ. NO. STP-NHE-1(112) CONST.
 STA. 400+45.00

| | |
|--------------------|-----------|
| END PHASE II STA. | 400+45.00 |
| BEGIN PHASE I STA. | 400+45.00 |

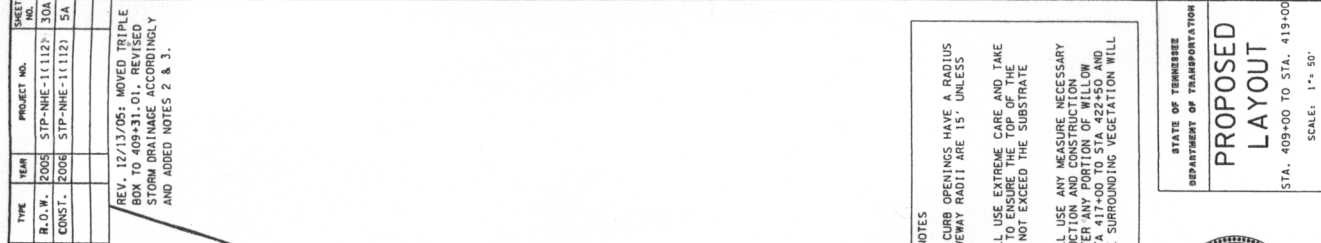
* THIS PHASE INFORMATION IS FOR UTILITY RELOCATION ONLY

NOTES

- NOTES
1. ALL DRIVEWAYS WITH CURB OPENINGS HAVE A RADIUS OF 5'. ALL OTHER DRIVEWAY RADI! ARE 15' UNLESS OTHERWISE NOTED.
 2. THE CONTRACTOR SHALL USE EXTREME CARE AND TAKE ANY MEASURE NECESSARY TO ENSURE THE TOP OF THE PROPOSED RIP-RAP DOES NOT EXCEED THE SUBSTRATE LEVEL OF THE STREAM.

| | | |
|------------------|-----------------|----------|
| TENNESSEE D.O.T. | DESIGN DIVISION | FILE NO. |
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| FILE |
| DES |
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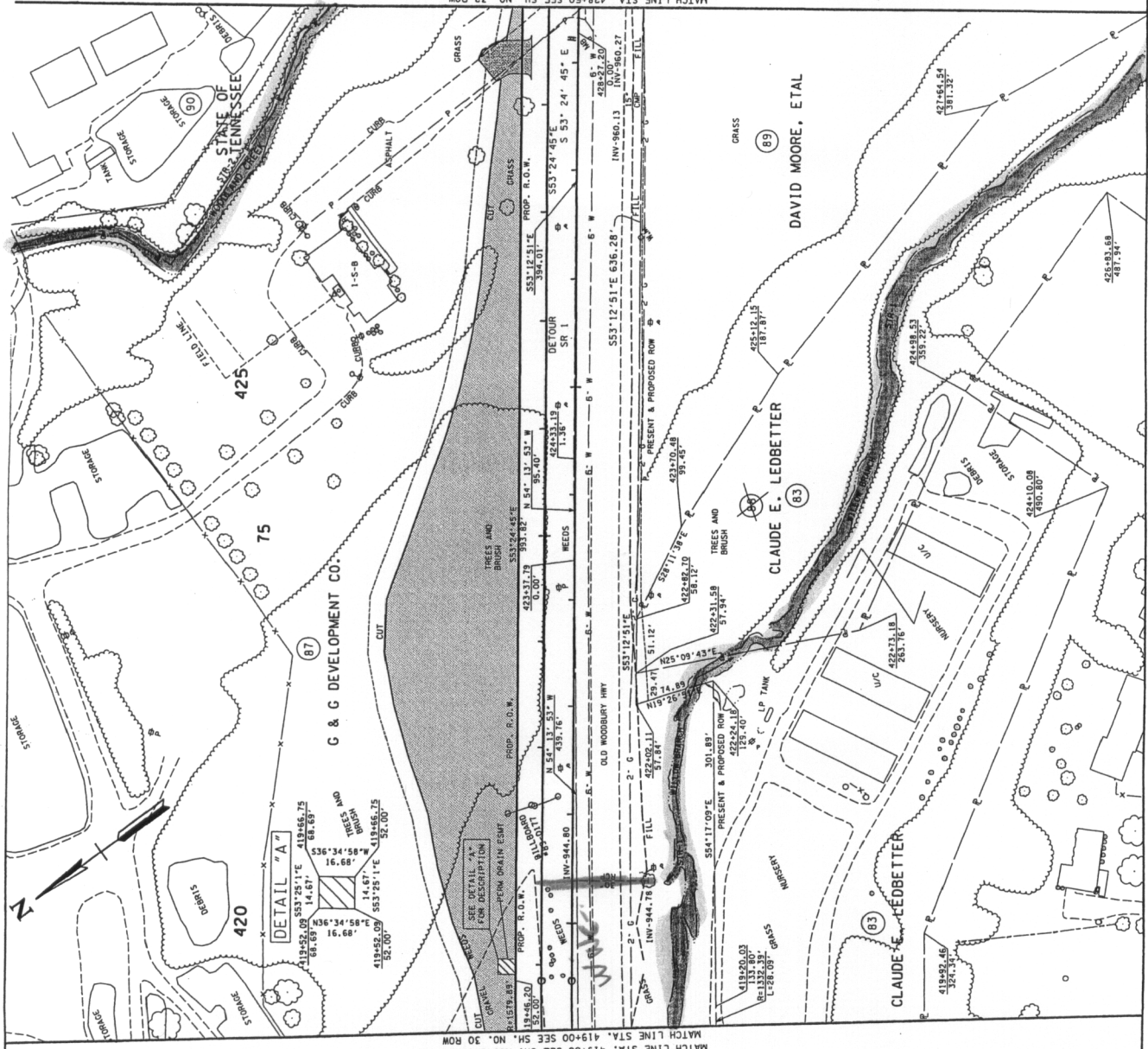


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
LAYOUT

STA. 409+00 TO STA. 419+00
SCALE: 1"= 50'





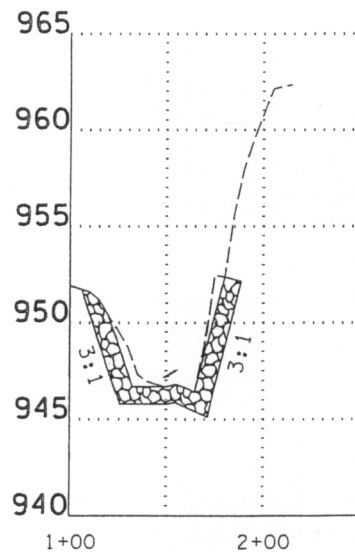
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|--------|------|----------------|-----------|
| R.O.W. | 2005 | STP-NHE-1(112) | 31 |
| CONST. | 2006 | STP-NHE-1(112) | 6 |

REV. 12/13/05: ADDED LABEL STR-1 TO WILLOW BRANCH, ADDED LABEL STR-2 TO WOODLAND CREEK.

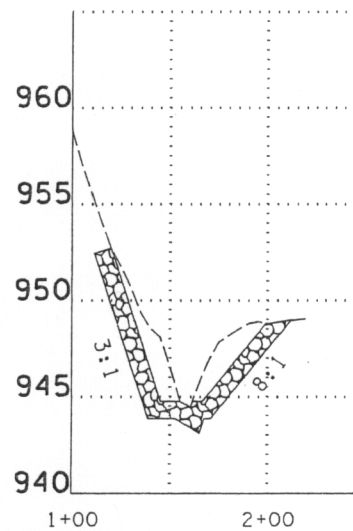


COORDINATE VALUES ARE NAD(83)9903 AND ARE DATUM ADJUSTED BY THE FACTOR 1.00004 & TIED TO THE TURN STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
PRESENT LAYOUT
 STA. 419+00 TO STA. 428+50
 SCALE: 1" = 50'

Permit Sketch



SECTION C-C



SECTION D-D

SECTIONS FOR BOX BRIDGE CHANNEL @ 430+22.00
SCALE 1" = 100'

S.R. 1 (U.S. 70 SOUTH)
FROM: SPRING VALLEY RD
TO: McMINVILLE, TN

APPLICATION BY:
TENNESSEE DEPARTMENT OF TRANSPORTATION
PROJECT No. STP-NHE-1(112)
PIN 100266.00
DATUM: MEAN SEA LEVEL
PURPOSE: CONSTRUCTION OF SR 1
IN: WOODLAND CREEK
COUNTY: WARREN STATE: TN

DATE: 12/13/05

REVISED: / /

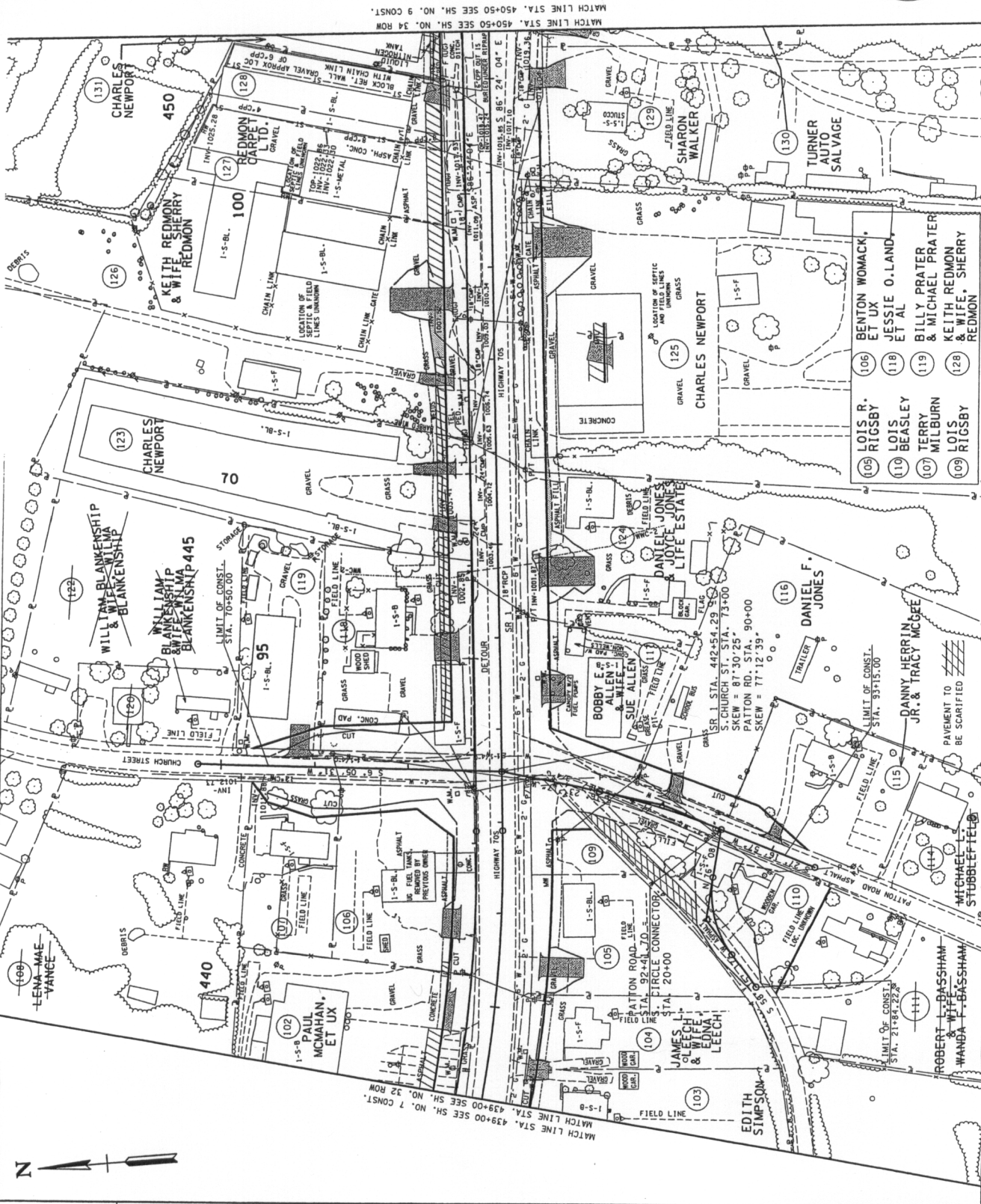
SHEET 5 OF 5

COORDINATE VALUES ARE NAD(83)(1995)
AND ARE DATUM ADJUSTED BY THE
FACTOR 1.000094 & TIED TO THE TGN.

STATE OF TENNESSEE

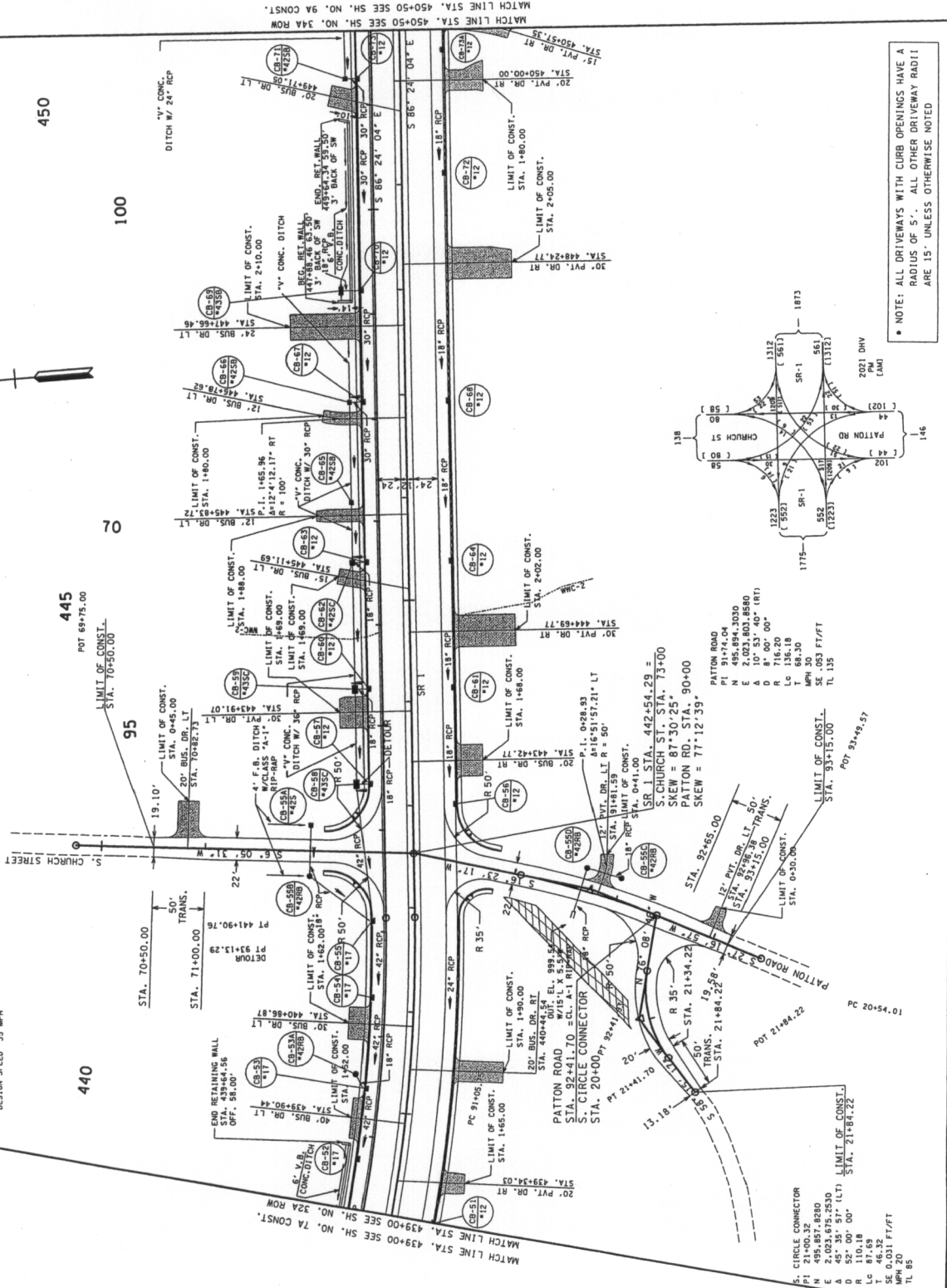
PRESENT LAYOUT

STA. 439+00 TO STA.
SCALE: 1" = 50'



| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|--------|------|----------------|-----------|
| R.O.W. | 2005 | STP-NHE-1(115) | 33A |
| CONST. | 2006 | STP-NHE-1(112) | 8A |
| | | | |
| | | | |

REV. 12/13/05: ADDED AND LABELED
WT-WEATHER CONVEYANCE WWC-2 LT &
RT OF 444+70. REDUCED WIDTH OF PVT
DR LT OF 447+66.46 FROM 30' TO 24'.
DELETED PVT DR LT OF 448+86.29
MOVED PVT DR LT OF 449+68.61 TO
449+71.05. ADDED RETAINING WALL
LT FROM 447+88.46 TO 449+64.34.
REVISED DITCH AND STORM DRAINAGE
ON LT FROM 443+00 TO END OF PROJ.



• NOTE: ALL DRIVEWAYS WITH CURB OPENINGS HAVE A RADIUS OF 5'. ALL OTHER DRIVEWAY RADII ARE 15' UNLESS OTHERWISE NOTED



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
LAYOUT

STA. 439+00 TO STA. 450+50

SCALE: 1" = 50'



Photo 1 Wetland 1 and Stream 3



Photo 2 Willow Branch (Stream 1) at SR-1 (US 70) facing downstream



Photo 3 Wet area at Woodland Creek



Photo 4 Woodland Creek (Stream 2) looking downstream from SR-1 (US 70)



Photo 5 Stream 4 at confluence with Woodland Creek